

U-FACTOR AND SHGC FENESTRATION CERTIFICATE LABEL FC-1/FC-2

PROJECT INFORMATION Form 1 of

PROJECT NAME:	DATE:
PROJECT ADDRESS:	CLIMATE ZONE:

Option 1: For buildings with less than 10,000 ft² of site-built fenestration may optionally use either CEC Default Tables 116-A and 116-B, Method 1, or the Alternative Calculation Nonresidential Reference Appendix NA6, Method 2.

Option 2: For buildings with greater 10,000 ft² of site-built fenestration only one option is available; use CEC Default Tables 116-A and 116-B. Use Method 1 only.

A separate (FC-1/FC-2) Label Certificate Form is required for each different fenestration product line. Unlabeled manufactured fenestration products including skylights and exterior doors shall meet the air infiltration requirements of §116(a)1 of the 2008 California Energy Efficiency Standards applicable to Residential and Nonresidential Buildings.

Enter the U-factor_t and SHGC_t in the following boxes after completing Method 1 or 2 below.

U-factor_t =	SHGC_t =
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PRODUCT LINE INFORMATION (Complete a separate Label Certificate for each fenestration product line is required)

Total Number of units for the same product line:		Total square footage of this product line:	
Schedule location on the building plans – Reference page:		Total Fenestration Area (ft ²) on project:	
Location(s) on building: S, N, E, W			

☐ **Method 1** (For fenestration either less than or greater than or equal to 10,000 ft²)

U-FACTOR INFORMATION FROM DEFAULT See TABLE 116-A:

Frame Type	<input type="checkbox"/> Metal	<input type="checkbox"/> Metal With Thermal Break	<input type="checkbox"/> Nonmetal
Product Type	<input type="checkbox"/> Operable	<input type="checkbox"/> Fixed	<input type="checkbox"/> Greenhouse/ Garden Window <input type="checkbox"/> Doors <input type="checkbox"/> Skylights
Glazing Type	<input type="checkbox"/> Single Pane	<input type="checkbox"/> Double Pane	<input type="checkbox"/> Glass Block
Insert value in the default U-factor gray box above			

SOLAR HEAT GAIN INFORMATION FROM DEFAULT See TABLE 116-B:

Product Type	<input type="checkbox"/> Operable	<input type="checkbox"/> Fixed	
Glazing:	<input type="checkbox"/> Clear	<input type="checkbox"/> Tinted	
Insert value in the default SHGC _t gray box above			

☐ **Method 2** (For fenestration less than 10,000 ft²) **Reference Nonresidential Appendix NA6**

GLAZING INFORMATION: Alternative Calculation < less than 10,000 ft²

STEP 1: Determine U-Factor:	Enter U-factor from Equation NA6-1 above in the gray box next to U-factor
STEP 2: Determine SHGC_t:	Use Center of Glass, SHGC _c , in the equation below to determine the solar heat gain coefficient with frame
Enter Center of Glass, COG, from Manufacturer's Documentation, SHGC _c	Insert Center of Glass value here
Calculate the new SHGC _t of the frame.	SHGC _t = 0.08 + (0.86 x SHGC _c) =
Insert calculated result value here and in above gray box next to SHGC _t	

STEP 3: ATTACHED MANUFACTURER'S LITERATURE:

Manufacturer's literature must be attached showing the Product Type, Frame Type, Glazing, Center Of Glass(COG) U-factor, and SHGC_c information needed to determine the Default U-factor_t and SHGC_t.

PARTY TAKING RESPONSIBILITY FOR FENESTRATION COMPLIANCE:

CONTACT PERSON:	
COMPANY NAME and ADDRESS:	
PHONE:	FAX:
SIGNATURE:	LICENSE # (if Applicable)